



SEQUENCE LISTING

<110> IRIMURA, TATSURO
MAENUMA, KEISUKE
KOMATSU, KUNIMITSU
TACHIKI, AYUMI
MATSUMOTO, MARIKO

<120> USE OF LECTIN LIBRARY FOR DISTINGUISHING GLYCOPROTEINS
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<160> 40

<170> PatentIn Ver. 3.3

<210> 1
<211> 950
<212> DNA
<213> Maackia amurensis

<220>
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<222> (4)..(858)

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Met Ala Thr Ser Asn Ser Lys Pro Thr Gln Val Leu Leu Ala Thr
1 5 10 15
ttc tta act ttc ttc ctt ttg cta ctc aac aac gta aac tca tca gat 96
Phe Leu Thr Phe Phe Leu Leu Leu Leu Asn Asn Val Asn Ser Ser Asp
20 25 30
gag ctt tct ttt acc atc aac aat ttc atg cca aat caa ggc gat cta 144
Glu Leu Ser Phe Thr Ile Asn Asn Phe Met Pro Asn Gln Gly Asp Leu
35 40 45
ctc ttc caa ggt gta gcc act gtt tca cca aca ggg gta tta caa ctt 192
Leu Phe Gln Gly Val Ala Thr Val Ser Pro Thr Gly Val Leu Gln Leu
50 55 60
acc agc gaa gaa aac ggt caa ccc ctg gag tat tct gtt ggc aga gct 240
Thr Ser Glu Glu Asn Gly Gln Pro Leu Glu Tyr Ser Val Gly Arg Ala
65 70 75

| | |
|--|-----|
| cta tat act gcc cct gtg cgc att tgg gac agt acc act ggc gcc gta | 288 |
| Leu Tyr Thr Ala Pro Val Arg Ile Trp Asp Ser Thr Thr Gly Ala Val | |
| 80 85 90 95 | |
| gca agc ttc tcc act tcc ttc acc ttt gtt gtg aaa gca gct agg gga | 336 |
| Ala Ser Phe Ser Thr Ser Phe Thr Phe Val Val Lys Ala Ala Arg Gly | |
| 100 105 110 | |
| gct tct gac ggt tta gcc ttc ttt ctt gca cca cct gat tct cag atc | 384 |
| Ala Ser Asp Gly Leu Ala Phe Phe Leu Ala Pro Pro Asp Ser Gln Ile | |
| 115 120 125 | |
| cct tcg ggc agc gta tcg aaa tac cta gga ctt ttt aac aac tca aat | 432 |
| Pro Ser Gly Ser Val Ser Lys Tyr Leu Gly Leu Phe Asn Asn Ser Asn | |
| 130 135 140 | |
| tcc gat agt tcc aac caa att gtt gct gta gag ttt gac act tac ttc | 480 |
| Ser Asp Ser Ser Asn Gln Ile Val Ala Val Glu Phe Asp Thr Tyr Phe | |
| 145 150 155 | |
| ggc cat agt tat gat ccc tgg gat cca aat tat cga cat atc gga att | 528 |
| Gly His Ser Tyr Asp Pro Trp Asp Pro Asn Tyr Arg His Ile Gly Ile | |
| 160 165 170 175 | |
| gat gtc aac ggt att gag tcg ata aaa act gtg caa tgg gat tgg att | 576 |
| Asp Val Asn Gly Ile Glu Ser Ile Lys Thr Val Gln Trp Asp Trp Ile | |
| 180 185 190 | |
| aac ggc gga gtt gcc ttt gct acc ata acc tat cta gct ccc aac aaa | 624 |
| Asn Gly Gly Val Ala Phe Ala Thr Ile Thr Tyr Leu Ala Pro Asn Lys | |
| 195 200 205 | |
| acg tta ata gca tct cta gtt tac cct tcc aat caa aca agt ttc att | 672 |
| Thr Leu Ile Ala Ser Leu Val Tyr Pro Ser Asn Gln Thr Ser Phe Ile | |
| 210 215 220 | |
| gtc gct gct tct gtt gat ttg aag gga atc ctc cct gag tgg gtt aga | 720 |
| Val Ala Ala Ser Val Asp Leu Lys Gly Ile Leu Pro Glu Trp Val Arg | |
| 225 230 235 | |
| gtt ggt ttc tct gct gcc acg ggt gct cct aaa gca gtt gaa acc cac | 768 |
| Val Gly Phe Ser Ala Ala Thr Gly Ala Pro Lys Ala Val Glu Thr His | |
| 240 245 250 255 | |
| gat gtt cgt tcc tgg tct ttc acg tca act ttg gaa gcc aac agc cct | 816 |
| Asp Val Arg Ser Trp Ser Phe Thr Ser Thr Leu Glu Ala Asn Ser Pro | |
| 260 265 270 | |
| gct gat gtg gat aat aat gtg cat atc gca cgt tac act gca | 858 |
| Ala Asp Val Asp Asn Asn Val His Ile Ala Arg Tyr Thr Ala | |
| 275 280 285 | |
| tgatctcgtg agctttcgta tgtattaggt gtttatgtaa attaaataaaa aatgacctga | 918 |
| aataatgggtt atcggcgag ctatacaaaaa at | 950 |

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 <213> Maackia amurensis

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 Leu Ser Phe Thr Ile Asn Asn Phe Met Pro Asn Gln Gly Asp Leu Leu
 35 40 45
 Phe Gln Gly Val Ala Thr Val Ser Pro Thr Gly Val Leu Gln Leu Thr
 50 55 60
 Ser Glu Glu Asn Gly Gln Pro Leu Glu Tyr Ser Val Gly Arg Ala Leu
 65 70 75 80
 Tyr Thr Ala Pro Val Arg Ile Trp Asp Ser Thr Thr Gly Ala Val Ala
 85 90 95
 Ser Phe Ser Thr Ser Phe Thr Phe Val Val Lys Ala Ala Arg Gly Ala
 100 105 110
 Ser Asp Gly Leu Ala Phe Phe Leu Ala Pro Pro Asp Ser Gln Ile Pro
 115 120 125
 Ser Gly Ser Val Ser Lys Tyr Leu Gly Leu Phe Asn Asn Ser Asn Ser
 130 135 140
 Asp Ser Ser Asn Gln Ile Val Ala Val Glu Phe Asp Thr Tyr Phe Gly
 145 150 155 160
 His Ser Tyr Asp Pro Trp Asp Pro Asn Tyr Arg His Ile Gly Ile Asp
 165 170 175
 Val Asn Gly Ile Glu Ser Ile Lys Thr Val Gln Trp Asp Trp Ile Asn
 180 185 190
 Gly Gly Val Ala Phe Ala Thr Ile Thr Tyr Leu Ala Pro Asn Lys Thr
 195 200 205
 Leu Ile Ala Ser Leu Val Tyr Pro Ser Asn Gln Thr Ser Phe Ile Val
 210 215 220
 Ala Ala Ser Val Asp Leu Lys Gly Ile Leu Pro Glu Trp Val Arg Val
 225 230 235 240
 Gly Phe Ser Ala Ala Thr Gly Ala Pro Lys Ala Val Glu Thr His Asp
 245 250 255
 Val Arg Ser Trp Ser Phe Thr Ser Thr Leu Glu Ala Asn Ser Pro Ala
 260 265 270

Asp Val Asp Asn Asn Val His Ile Ala Arg Tyr Thr Ala
 275 280 285

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<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 3
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<210> 4
 <211> 32
 <212> DNA
 <213> Artificial Sequence

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 <223> Description of Artificial Sequence: Synthetic
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<400> 4
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<210> 5
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 5
 ccaggtgaaa ctgctcgagt cagatg 26

<210> 6
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
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 primer

<400> 6
 tgggcaacta gttgcagtgt aacgtgcg 28

<210> 7
 <211> 26
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 <213> Artificial Sequence

<220>
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 primer

<400> 7
 catcataacg gttctggcaa atattc

26

<210> 8
 <211> 24
 <212> DNA
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<220>
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24

<210> 9
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<210> 10
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<210> 11
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primer

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<210> 12
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primer

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<210> 13
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primer

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<210> 14
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<400> 14

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<210> 16

<211> 59

<212> DNA

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<210> 17

<211> 59

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic primer

<400> 17

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<210> 18

<211> 40

<212> DNA

<213> Artificial Sequence

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<400> 18

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<210> 19
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 primer

<400> 19
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21

<210> 20
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<220>
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<400> 20
 ccaggtgaaa ctgctcgagt cagatg

26

<210> 21
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<400> 21
 gtggtcgact gcagtgtaac gtg

23

<210> 22
 <211> 11
 <212> PRT
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<220>
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<400> 22
 Asp Thr Tyr Phe Gly His Gly Tyr Asp Pro Trp
 1 5 10

<210> 23
 <211> 11
 <212> PRT
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<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 23
 Asp Thr Tyr Phe Arg His Asn Tyr Asp Pro Trp
 1 5 10

<210> 24
 <211> 11
 <212> PRT
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<400> 24
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 1 5 10

<210> 25
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 <212> PRT
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<400> 25
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<210> 26
 <211> 11
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<400> 26
 Asp Thr Tyr Phe Gly His Val Tyr Asp Pro Trp
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<210> 27
<211> 11
<212> PRT
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<220>
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peptide

<400> 27
Asp Thr Tyr Phe Ala His Asn Tyr Asp Pro Trp
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<210> 28
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 28
Asp Thr Tyr Phe Gly His Leu Tyr Asp Pro Trp
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<210> 29
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 29
Asp Thr Tyr Phe Gly His Asp Tyr Asp Pro Trp
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<210> 30
<211> 11
<212> PRT
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<220>
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peptide

<400> 30
Asp Thr Tyr Phe Tyr His Asn Tyr Asp Pro Trp
1 5 10

<210> 31
 <211> 11
 <212> PRT
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<220>
 <223> Description of Artificial Sequence: Synthetic
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<400> 31
 Asp Thr Tyr Phe Gly His Trp Tyr Asp Pro Trp
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<210> 32
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 <212> DNA
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 <222> (22)..(23)
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 <222> (37)..(38)
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 atc 63

<210> 33
 <211> 30
 <212> DNA
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<220>
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 primer

<400> 33
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30

<210> 34
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 34
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 1 5 10 15

Pro Ser

<210> 35
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 35
 Val Glu Phe Asp Thr Tyr Phe Gly His Ser Tyr Asp Pro Trp Asp Pro
 1 5 10 15

<210> 36
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 36
 Phe Asp Thr Tyr Phe Gly His Ser Tyr Asp Pro Trp Asp
 1 5 10

<210> 37
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 <212> PRT
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 <220>
 <223> Description of Artificial Sequence: Synthetic peptide

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 <222> (10)
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 <210> 38
 <211> 11
 <212> PRT
 <213> Artificial Sequence

 <220>
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 <400> 38
 Asp Thr Tyr Phe Gly His Ser Tyr Asp Pro Trp
 1 5 10

 <210> 39
 <211> 11
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 <220>
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 <222> (7)..(8)
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 <222> (10)..(11)
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1 5 10

<210> 40

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

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1 5 10 15

Val Arg Ser Trp
20